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FIG. 1

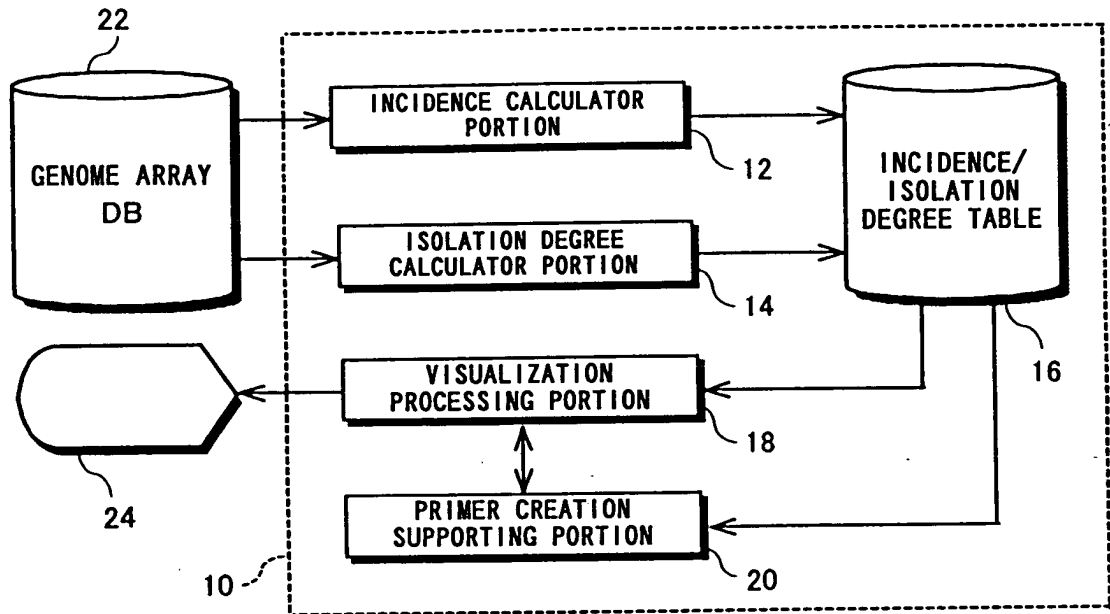


FIG. 7

FIRST INDICATOR (INCIDENCES)	SECOND INDICATOR (ISOLATION DEGREE)	THIRD INDICATOR (SECOND INDICATOR / FIRST INDICATOR)	COLOR
LARGE ↑ ↓ SMALL	SMALL ↑ ↓ LARGE	SMALL ↑ ↓ LARGE	WARM COLOR ↑ ↓ COLD COLOR

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FIG. 2A

GENOME ARRAYS:	ATATGGGATC	INCIDENCES
N-mer ARRAY:	AT	AT:3
	TA	TA:1
	AT	AT:3
	TG	TG:1
	GG	GG:2
	GG	GG:2
	GA	GA:1
	AT	AT:3
	TC	TC:1

200

FIG. 2B

211	...ATGCCAGTCAG...	INCIDENCES
	ATGCCA	8
	TGCCAG	2
	GCCAGT	3
	CCAGTC	1
	CAGTCA	3
	AGTCAG	4

210

212

APPEARS $(8+2+3+1+3+4)/6$ TIMES

FIG. 3

300 ATATGGGATC	301 INCIDENCES	302 1 MUTATION	303 2 MUTATIONS	304 ISOLATION DEGREE
AT	AT: 3	AA, AG, AC, TT, GT, CT	TA, TG, <u>TC</u> , GA, <u>GG</u> , GC, CA, CG, CC	2
TA	TA: 1	AA, GA, CA, TT, <u>IG</u> , <u>IC</u>		1
AT	AT: 3	AA, AG, AC, TT, GT, CT	TA, TG, <u>TC</u> , GA, <u>GG</u> , GC, CA, CG, CC	2
TG	TG: 1	TA, <u>IC</u> , TT, AG, CG, <u>GG</u>		1
GG	GG: 2	GA, GC, GT, AG, CG, <u>IG</u>		1
GG	GG: 2	GA, GC, GT, AG, CG, <u>IG</u>		1
GA	GA: 1	GG, GC, GT, AA, CA, <u>IA</u>		1
AT	AT: 3	AA, AG, AC, TT, GT, CT	TA, TG, <u>TC</u> , GA, <u>GG</u> , GC, CA, CG, CC	2
TC	TC: 1	TA, <u>IG</u> , TT, AC, GC, <u>CC</u>		1

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FIG. 4

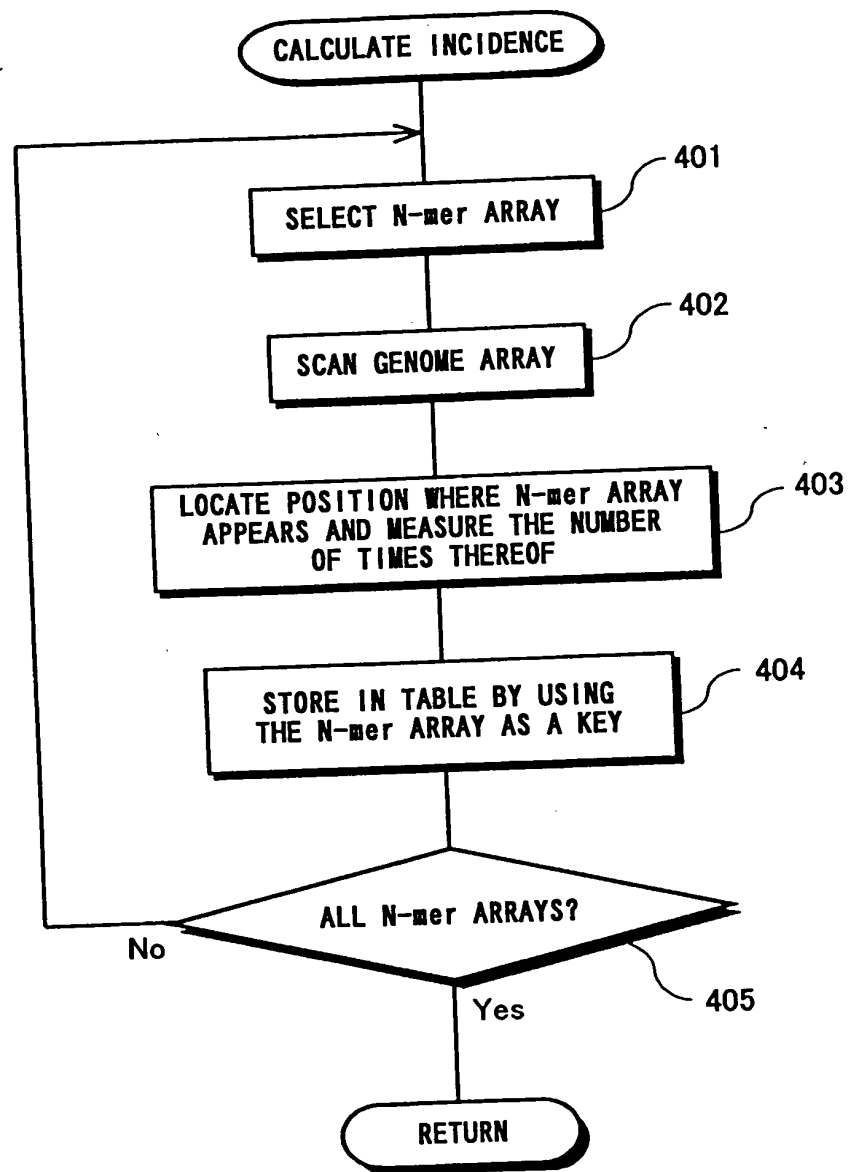


FIG. 5A

N-mer ARRAYS	TT	TC	TG	TA	CT	CC	CG	CA	GT	GC	GG	GA	AT	AC	AG	AA
INCIDENCES	0	1	1	1	0	0	0	0	0	0	2	1	3	0	0	0

FIG. 5B

N-mer ARRAYS	TC	TG	TA	GG	GA	AT
INCIDENCES	1	1	1	2	1	3

501

FIG. 5C

HASH ARRAYS	T	C	G	A
POSITION OF APPEARANCE	1	0	4	6

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FIG. 6

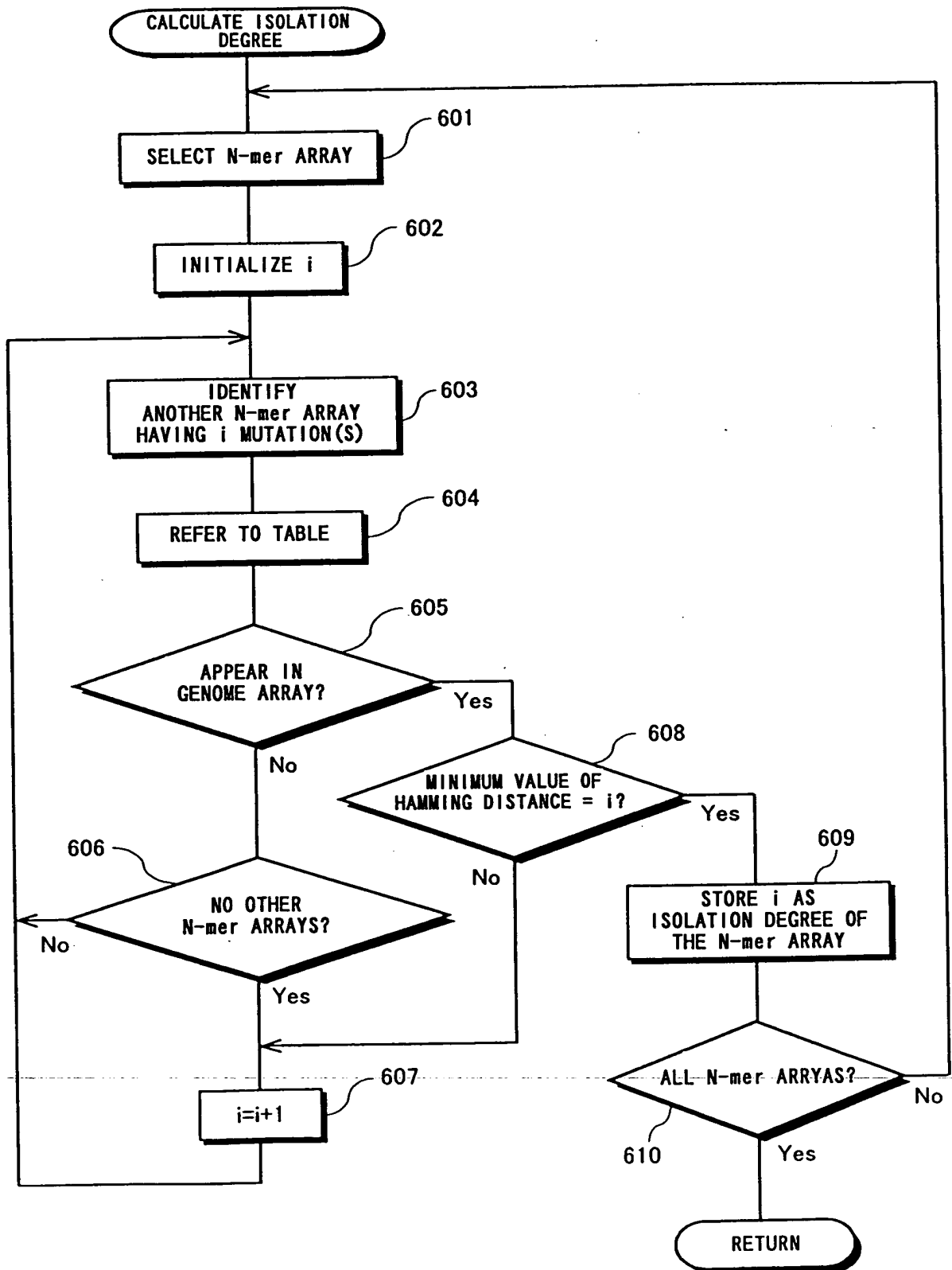
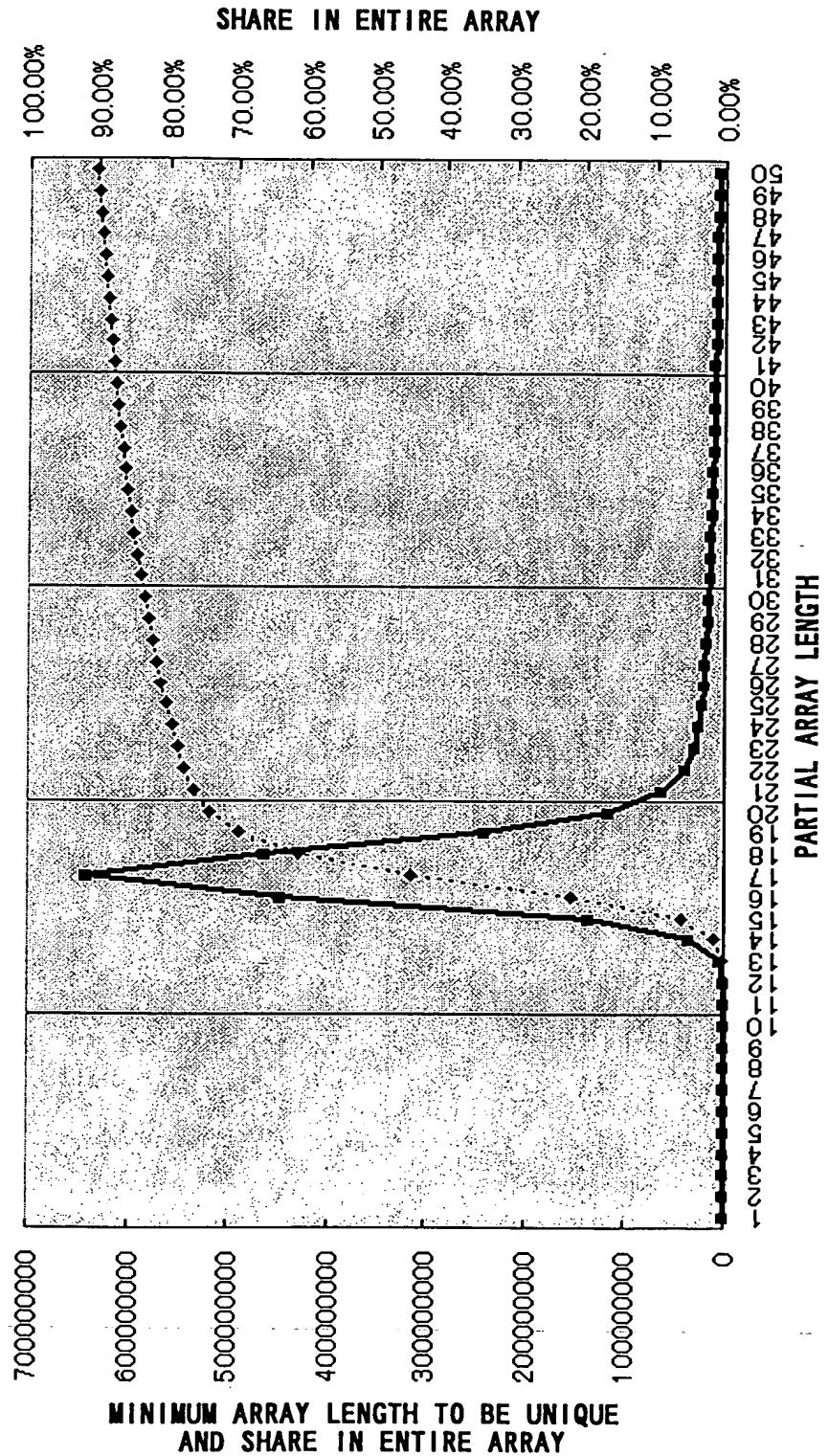


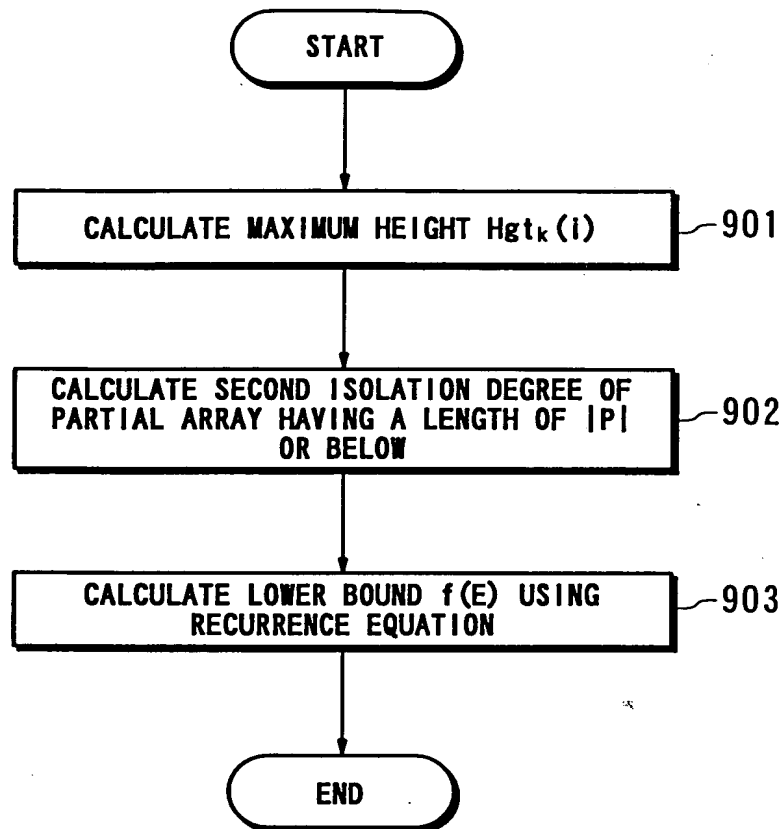
FIG. 8

NUMBER OF UNIQUE ARRAY PATTERNS WITH PARTIAL ARRAY LENGTHS
(NCBI build30)



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FIG. 9



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